

What is claimed is:

1. An image display apparatus comprising:
a display having an image display surface which displays a two-dimensional image of an object including a three-dimensional object; and
an image transmitting panel spaced apart from the image display surface for creating an imaging plane displaying a real image of the two-dimensional image in a space opposite to the display;
wherein the image transmitting panel and the imaging plane are non-parallel with each other.
2. The image display apparatus according to claim 1, wherein the image transmitting panel includes at least one micro lens board, each micro lens board having an array of a plurality of micro lenses arranged two-dimensionally, the micro lenses defines at least one lens system, each lens system having a pair of convex lenses coaxial with each other, and optical axes of the lens systems are parallel with each other.
3. The image display apparatus according to claim 2, wherein the image display surface of the display is positioned within a focal depth of the plurality of lenses.
4. The image display apparatus according to claim 2, wherein the image display surface of the display is positioned at a non-right angle to the optical axes of the lens systems.
5. The image display apparatus according to claim 4, wherein the plurality of lenses have focal lengths in an image side such that the imaging plane has a flat shape and inclines

toward the array of the micro lenses.

6. The image display apparatus according to claim 4, wherein the plurality of lenses have focal lengths in an image side such that the imaging plane has a curved shape and inclines toward the array of the micro lenses.

7. The image display apparatus according to claim 1, wherein the image display surface of the display displays an image providing a perspective feeling along an inclined direction of the imaging plane.

8. The image display apparatus according to claim 1, wherein the image display surface of the display displays a moving image moving along an inclined direction of the imaging plane.

9. The image display apparatus according to claim 2, wherein the apparatus includes a plurality of arrays of micro lenses connected to the image transmitting panel at a predetermined angle for creating a plurality of imaging planes.

10. An image display apparatus comprising:

a display having an image display surface which displays a two-dimensional image of an object including a three-dimensional object; and

an image transmitting panel spaced apart from the image display surface for creating an imaging plane displaying a real image of the two-dimensional image in a space opposite to the display;

wherein the apparatus includes a non-parallel area in

which the image transmitting panel and the imaging plane are non-parallel with each other, and a parallel area in which the image transmitting panel and the imaging plane are parallel with each other.

11. The image display apparatus according to claim 10, wherein the image transmitting panel includes a micro lens board having an array of a plurality of micro lenses arranged two-dimensionally covering the non-parallel area and the parallel area, the micro lenses in each area define at least one lens system, each lens system having a pair of convex lenses coaxial with each other, and optical axes of the lens systems being parallel with each other.

12. The image display apparatus according to claim 11, wherein the image display surface of the display is positioned within a focal depth of the plurality of lenses.

13. The image display apparatus according to claim 11, wherein the image display surface of the display in the non-parallel area is positioned at a non-right angle to the optical axes of the lens systems.

14. The image display apparatus according to claim 13, wherein the plurality of lenses in the non-parallel area have focal lengths in an image side such that the imaging plane has a flat shape and inclines toward the array of the micro lenses.

15. The image display apparatus according to claim 13, wherein the plurality of lenses in the non-parallel area have focal lengths in an image side such that the imaging plane

has a curved shape and inclines toward the array of the micro lenses.

16. The image display apparatus according to claim 10, wherein the image display surface of the display in the non-parallel area displays an image providing a perspective feeling along an inclined direction of the imaging plane.

17. The image display apparatus according to claim 10, wherein the image display surface of the display in the non-parallel area displays a moving image moving along an inclined direction of the imaging plane.